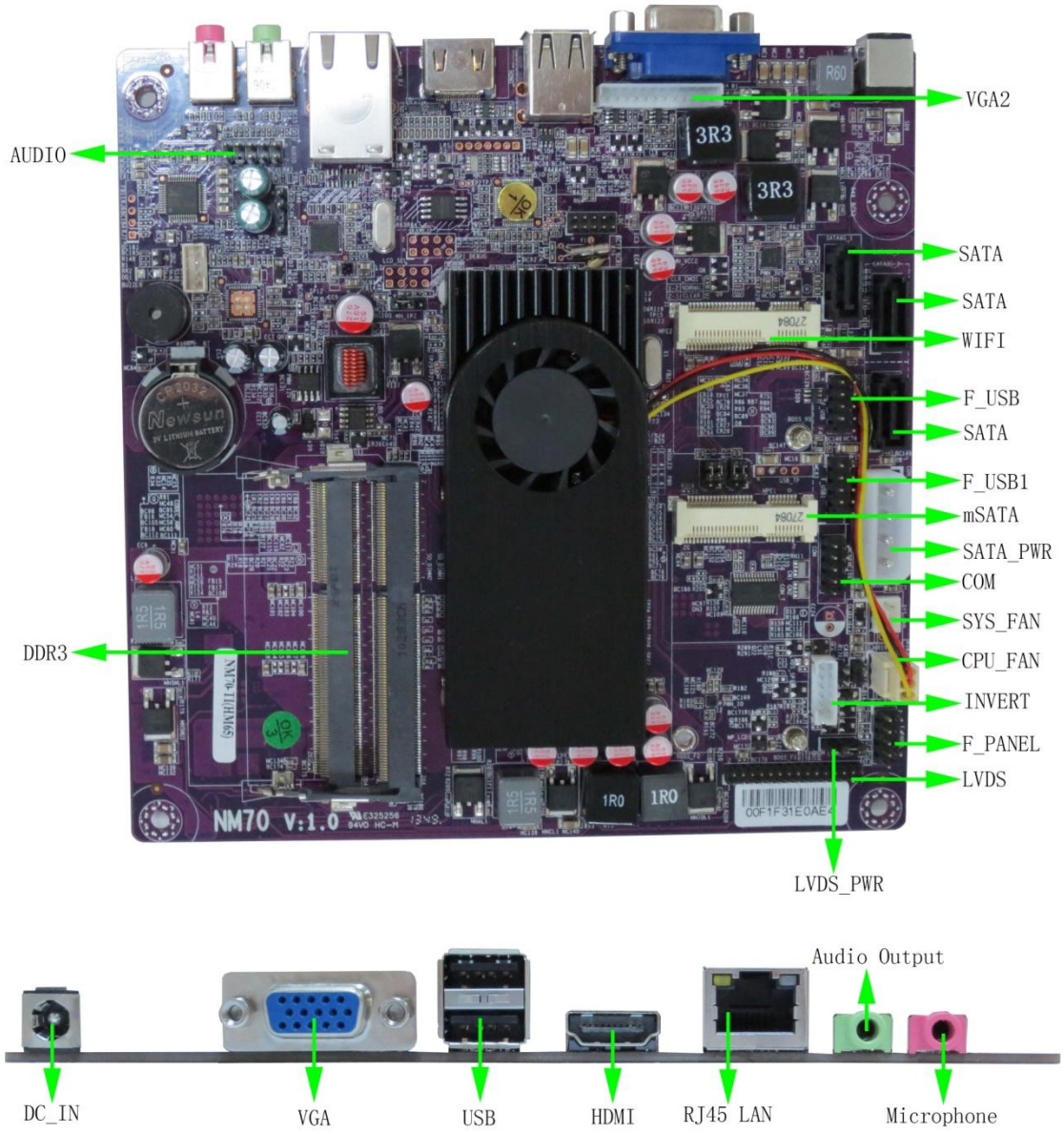
Intel NM70-TI V1.0 User Guide

Specification

CPU	º Onboard Intel® Celeron 847/807/1037U processors º Solid Capacitor for CPU side
CHIPSET	º Intel® NM70 Express Chipset
GRAPHICS	º Supports DirectX® 10.1 º Supports Full HD 1080P Blu-ray / HD-DVD Playback
MEMORY	º Dual-channel DDR3 Memory architecture º Supports DDR3 1333/1066 non-ECC, Un-buffered SDRAM Memory º 2 X DDR3 SO-DIMM socket º Support up to 16 GB*
EXPANSION SLOT	º 1 X PCI Express X 1 slot(s) (optional) º 2 X Mini PCI Express X1 slot(s)
Storage	º Support by Intel NM70 Express Chipset • 1 X Serial ATAIII 6Gb/s • 2 X Serial ATAII 3Gb/s
Audio	º 2-Channel HD audio CODEC
LAN	º Realtek 8105/8111E Gigabit Fast Ethernet Controller (optional) º Wake-On-LAN
USB	º Support by NM70 Express Chipset • 4 X USB2.0 port(s) Up to 480 Mb/s
REAR PANEL I/O	º 2 x Audio jacks (Line Out, Mic In) º 1 X RJ-45 port º 1 X HDMI port(s) º 1 X D-Sub (VGA) port(s) º 2 X USB2.0 port(s) º 1 X DC-in Connector
CONNECTORS & HEADERS	º 1 X CPU_FAN connector º 1 X SYS_FAN connector with smart fan º 1 X Front Panel switch/LED header º 1 X Front panel audio header º 1 X Speaker header º 2 X USB 2.0 header º 1 X SATA III 6Gb/s connector(s) º 2 X SATA II 3Gb/s connector(s) º 1 X PCI Express mSATA connector º 1 X LVDS connector (optional) º 1 X SATA power connector

FORM FACTOR	º Thin Mini ITX 170*170mm
OS Support	º Windows XP 32-bit Windows XP 64-bit º Windows 7 32-bit Windows 7 64-bit º Windows 8 32-bit Windows 8 64-bit

Jumper and Header Locations



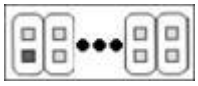
Definition of Jumpers and Headers

[1] RJ17 Header (3*1 Pin 2.54 mm)

LVDS_PWR

Pin	Definition	Pin	Definition
1	VCC3	2	VDD_select
3	VCC		

[2] LVDS1 Header（10*2 Pin 2.00 mm）



LVDS

Pin	Definition	Pin	Definition
1	LCD_VDD	2	LCD_VDD
3	LCD_VDD	4	LCD_VDD
5	LDDC_CLK	6	LVDS_TXP0
7	LDDC_DATA	8	LVDS_TXN0
9	GND	10	GND
11	LVDS_TXP1	12	LVDS_TXP2
13	LVDS_TXN1	14	LVDS_TXN2
15	GND	16	GND
17	LVDS_TXN3	18	LVDS_CLKN
19	LVDS_TXP3	20	LVDS_CLKP

[3] Serial Port 2 Header（5*2 Pin 2.54 mm）

COM2

Pin	Definition	Pin	Definition
1	NDCD2	2	NSIN2
3	NSOUT2	4	NDTR2
5	GND	6	NDSR2
7	NRTS2	8	NCTS2
9	NRI2		

[4] LDC Header（5*2 Pin 2.54 mm）

LDC

Pin	Definition	Pin	Definition
1	LPC_AD3	2	VCC3
3	LPC_AD2	4	LPC_FRAME_L
5	LPC_AD1	6	LDC_RST_L
7	LPC_AD0	8	LDC_CLK33
9	GND		

[5] JP1 Header（3*2 Pin 2.00 mm）

JP1

Pin	Definition	Pin	Definition
1	PCIE_RN2	2	PCIE_RP2
3	MSATARP_1	4	MSATARN_1
5	MSATARP1	6	MSATARN1

[6] JP2 Header（3*2 Pin 2.00 mm）

JP2

Pin	Definition	Pin	Definition
1	PCIE_RN2	2	PCIE_RP2
3	MSATARP_1	4	MSATARN_1
5	MSATARP1	6	MSATARN1

[7] VGA2 Header（6*2 Pin 2.00 mm）

VGA2

Pin	Definition	Pin	Definition
1	5VDDCSCL	2	5VDDCSDA
3	VCC_DDC	4	VSYNC
5	HSYNC	6	GND
7	RED_L	8	GND
9	GREEN_L	10	GND
11	BLUE_L	12	GND

[8] USB5~6 Header（5*2 Pin 2.54 mm）

F_USB1

Pin	Definition	Pin	Definition
1	VCC	2	VCC
3	DATA-	4	DATA-
5	DATA+	6	DATA+
7	GND	8	GND
9	N/A		

[9] USB7~8 Header（5*2 Pin 2.54 mm）

F_USB2

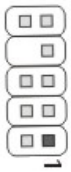
Pin	Definition	Pin	Definition
1	VCC	2	VCC
3	DATA-	4	DATA-
5	DATA+	6	DATA+
7	GND	8	GND
9	N/A		

[10] CASE Header（1*2 Pin 2.54 mm）

CASE

Pin	Definition	Pin	Definition
1	INTRUDER_L	2	GND

[11] Audio Header（5*2 Pin 2.54 mm）



F_AUDIO

Pin	Definition	Pin	Definition
1	MIC2_LL	2	AUGND
3	MIC2_RR	4	AZ_DET_L
5	LINE2_RR	6	MIC2_JD
7	AUGND	8	N/A
9	LINE2_LL	10	LINE2_JD

[12] ME_UNLOCK Header（2*1 Pin 2.54 mm）

CASE

Pin	Definition	Pin	Definition
1	ME_UN_PU	2	HDA_SDOUT

[13] SPDIFO Header（2*1 Pin 2.54 mm）

	Pin	Definition	Pin	Definition
	1	SPDIFO	2	VCC
CASE	3	N/A	4	GND

[14] CPU Fan Header（4*1 Pin 2.54 mm）

	Pin	**Definition**	**Pin**	**Definition**
	1	GND	2	+12V
CPU_FAN	3	SENSE		

[15] System Fan (3*1Pin 2.54 mm)

	Pin	**Definition**	**Pin**	**Definition**
	1	GND	2	+12V
SYS_FAN	3	SENSE		

[16] Front Panel Header（5*2 Pin 2.54 mm）

	Pin	**Definition**	**Pin**	**Definition**
	1	HD +	2	MSG/PD+
	3	HD -	4	MSG/PD-
	5	GND	6	PW+
F_PANEL1	7	RESET	8	PW-
	9	N/C	10	N/A

【FIN】